COMPLETE CLAIM SET

1. (Previously Presented) A method for recording data on an optical disc comprising

the steps of:

detecting optimum writing power from a test area on the optical disc;

determining whether or not a current writing power is within a predetermined allowable

range set with reference to the detected optimum writing power; and

performing a writing operation by increasing the writing power based on power update

information when the current writing power is larger than an upper bound of the predetermined

allowable range.

2. (Previously Presented) The method according to claim 1, wherein the determining

step comprises the steps of comparing a current writing position with previously stored position

information corresponding to the predetermined allowable range, and determining, based on the

result of the comparison, whether or not the current writing power is within the predetermined

allowable range set with reference to the detected optimum writing power.

3. (Original) The method according to claim 2, wherein the position information

corresponding to the predetermined allowable range is detected based on a disc type or a writing

speed associated with the optical disc.

4. (Original) The method according to claim 2, wherein the current writing position

is detected from absolute time in pre-groove data detected from a wobble signal generated in

association with the optical signal.

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5. (Original) The method according to claim 1, wherein the predetermined allowable

range of the writing power and/or the power update information is detected based on a disc type

and a writing speed associated with the optical disc.

6. (Original) The method according to claim 1, wherein the power update

information includes power information based on position information.

7. (Original) The method according to claim 2, wherein the power update

information includes information about a variation in writing power at a predetermined writing

interval.

8. (Previously Presented) The method according to claim 1, wherein the step of

increasing the writing power based on the power update information is carried out when the

writing operation is performed at a writing speed higher than an appropriate writing speed of the

optical disc.

9. (Previously Presented) An apparatus for recording data on an optical disc,

comprising:

a determining unit for determining, in a writing operation of the writing means, whether

or not current writing power is within a predetermined allowable range set with reference to

optimum writing power;

a controller for increasing the writing power based on power update information when

the current writing power is larger than an upper bound of the predetermined allowable range;

and

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a writing unit for performing a writing operation with the controlled writing power to

write input data to the disc using writing power.

10. (Original) The apparatus according to claim 9, further comprising:

means for detecting a current writing position from absolute time in pre-groove data

detected from a wobble signal on the optical disc.

11. (Original) The apparatus according to claim 10, wherein the determining unit

compares the current writing position with previously stored position information corresponding

to the predetermined allowable range, and determines, based on the result of the comparison,

whether or not the current writing power is within the predetermined allowable range set with

reference to the optimum writing power.

12. (Original) The apparatus according to claim 9, wherein the previously stored

position information of the predetermined allowable range and/or the power update information

is detected based on a disc type and/or a writing speed.

13. (Original) The apparatus according to claim 9, wherein the power update

information includes power information correspond to position information, respectively.

14. (Previously Presented) The apparatus according to claim 9, wherein the power

update information includes information about a variation of increase in writing power at a

predetermined writing interval.

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15. (Previously Presented) The apparatus according to claim 9, wherein increase of

the writing power based on the power update information by the controller is carried out when

the writing operation is performed at a writing speed higher than an appropriate writing speed of

the optical disc.

16. (Previously Presented) The method according to claim 1, further comprising

performing the writing operation with the writing power controlled to maintain a reflection

signal level corresponding to the detected optimum writing power when the current writing

power is within the predetermined allowable range.

17. (Previously Presented) The apparatus according to claim 9, wherein the controller

controls the writing power to maintain a reflection signal level corresponding to the optimum

writing power when the current writing power is within the predetermined allowable range based

on the result of the determining unit.

EHC/GH/cl